

**POLYMERIZATION CATALYST SYSTEMS, THEIR USE,  
THEIR PRODUCTS AND ARTICLES THEREOF**

**ABSTRACT**

The present invention relates to a process for the polymerization of monomers utilizing a bulky ligand hafnium transition metal metallocene-type catalyst compound, to the catalyst compound itself and to the catalyst compound in combination with an activator. The invention is also directed to an ethylene copolymer composition produced by using the bulky ligand hafnium metallocene-type catalyst of the invention, in particular a single reactor polymerization process.